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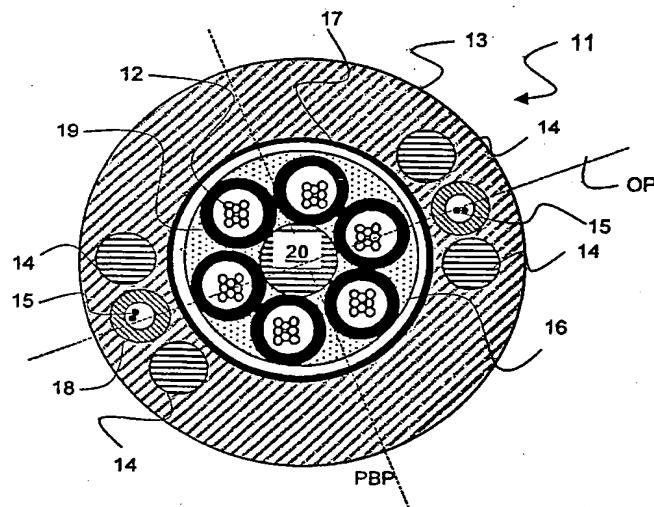
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(54) Title: TELECOMMUNICATION OPTICAL CABLE FOR GAS PIPELINE APPLICATION HAVING BUILT-IN LEAKAGE DETECTING DEVICE



(57) Abstract: It is disclosed a telecommunication fiber optic cable (11) for gas pipeline application and having a built-in leakage detecting device, the cable comprising: an optical core (16) including a number of telecommunication optical fibers (12), an outer jacket (13) covering the optical core, and one or more gas leakage detector optical fibers (15), wherein said one or more gas leakage detector optical fibers are enclosed within the outer jacket. Preferably, the cable comprises a linearly extending rod reinforcing system (14) comprising strength rods that force the cable to bend in a preferential bending place. Profitably, the leakage detector optical fibers are located at, or close to, a plane that is substantially orthogonal to the preferential bending plane and passing through the cable neutral axis.

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